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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/875,204	06/05/2001	Herbert Heyneker	018501000120	6403 9	
28393 75	90 10/03/2003	EXAMINER			
	STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.			LUDLOW, JAN M	
1100 NEW YORK AVE., N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER	
Wildimore	,,, 20 2000		1743		
			DATE MAILED: 10/03/200	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

				(A)
		Application No.	Applicar	it(s)
		09/875,204	HEYNEK	ER ET AL.
Offic	Action Summary	Examiner	Art Unit	
		Jan M. Ludlow	1743	
The MAIL Peri d for Reply	LING DATE of this communication a	appears on the cover	sheet with the correspond	ience address
THE MAILING C - Extensions of time r after SIX (6) MONTI - If the period for reply - If NO period for reply - Failure to reply within - Any reply received by	O STATUTORY PERIOD FOR REP DATE OF THIS COMMUNICATION may be available under the provisions of 37 CFR HS from the mailing date of this communication, by specified above is less than thirty (30) days, a by is specified above, the maximum statutory perion in the set or extended period for reply will, by state by the Office later than three months after the manadjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, howereply within the statutory miniod will apply and will expire Stute, cause the application to	ver, may a reply be timely filed mum of thirty (30) days will be cons IX (6) MONTHS from the mailing di become ABANDONED (35 U.S.C.	idered timely. ate of this communication. § 133).
1) Respons	ive to communication(s) filed on _	·	•	
2a) This action	on is FINAL . 2b)⊠	This action is non-fir	nal.	
	s application is in condition for allo accordance with the practice und ms			
4) Claim(s)	$\frac{\int -46}{}$ is/are pending in the applic	ation.		
4a) Of the	above claim(s) is/are without	Irawn from considera	ition.	
5)☐ Claim(s) _	is/are allowed.			
6)[☑ Claim(s) <u>/</u>	-46 is/are rejected.			
7) Claim(s) _	is/are objected to.		. •	
8) Claim(s)	are subject to restriction and	d/or election requirer	nent.	
Application Papers	·		·	
•	ication is objected to by the Exam			
10)⊠The drawir	ng(s) filed on <u>6/5/6/</u> is/are: a) <mark>[2]</mark> ad	ccepted or b) objecte	ed to by the Examiner.	
Applicant	may not request that any objection to	the drawing(s) be held	in abeyance. See 37 CFR	t 1.85(a).
11) The propos	sed drawing correction filed on	is: a) 🗌 approve	d b)☐ disapproved by th	e Examiner.
If approve	ed, corrected drawings are required in	reply to this Office act	ion.	
12)∏ The oath o	or declaration is objected to by the	Examiner.	·	
Priority under 35 L	J.S.C. §§ 119 and 120	•	•	•
13) Acknowle	dgment is made of a claim for fore	eign priority under 35	U.S.C. § 119(a)-(d) or (f).
a)∐ All b)[☐ Some * c) None of:			
1.☐ Cer	tified copies of the priority docume	ents have been rece	ved.	
2.☐ Cer	tified copies of the priority docume	ents have been rece	ved in Application No	·
_ ,	oies of the certified copies of the p application from the International ached detailed Office action for a	Bureau (PCT Rule 1	7.2(a)).	National Stage
14) Acknowledg	gment is made of a claim for dome	estic priority under 3	5 U.S.C. § 119(e) (to a pr	ovisional application).
•	ranslation of the foreign language gment is made of a claim for dom			21.
Attachment(s)				
3) M Information Disclo	ces Cited (PTO-892) rson's Patent Drawing Review (PTO-948) sure Statement(s) (PTO-1449) Paper No(s	4)	Interview Summary (PTO-413) Notice of Informal Patent Appli Other:	
S. Patent and Trademark Office PTOL-326 (Rev. 04-01)	Office	e Action Summary		Part of Paper No. 9

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "regulator" in claim 17 and the "bellows" in claim 18 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 U.S.C. § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors. Examples of some unclear and indefinite terms used in the claims are:

"liquid" recited in line 8 of the claim.

Claim 2, lines 7-8, "vacuum source" should be changed to --a vacuum source--.

Line 9, "conduit engagement" should be changed to --a conduit engagement--.

Line 4, recites the limitation "a plurality of liquid conduits", it is not clear from the claim as presently disclosed as to whether this is the same a plurality of liquid conduits

recited in line 10.

Claim 13, it is unclear what Applicant means by the recitation "the well being spaced apart about the distance of the wells in row of a 96-well microtiter plate". What wells of a 96-well microtiter plate? Further, the term "about" is a relative term which renders the claim indefinite. The term "about" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claim 19, Line 11, the limitation "in the series" is vague and indefinite. What series? Further, the claim recites only "a separate station", not a plurality of stations. Therefore the recitation "each station" is unclear.

Line 12, recites the limitation "the physical steps". There is insufficient antecedent basis for this limitation in the claim. It is unclear as to whether the stations perform a single "physical step" or a series of "physical steps".

Claim 40, the limitation, "predetermined sequence", is vague and indefinite. What predetermined sequence?

Claim 45, line 7, recites the limitation "the parent molecule". There is insufficient antecedent basis for this limitation in the claim.

Line 10, the limitation "in the series" is vague and indefinite. What series?

Lines 9-10, the claim recites only "a station", not a plurality of stations. Therefore

Emes 7-10, the claim recites only a charter, the approximation

the recitation "each station" is unclear.

Claim 45 provides for the use of a station, but, since the claim does not set forth any steps involved in the method/process involved in the physical steps, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Applicant is required to review and correct these errors so that the claims conform with U.S. patent practice.

Claim Rejections - 35 U.S.C. § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 19-20, 26-29 and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Harris *et al* (USP 4,871,683).

Harris et al disclose a reaction system substantially as claimed. The system comprises a carousel 12 with a plurality of reaction mounts 18, with one reaction well 20-arranged on the radius of the carousel, a rotator 74, 76 that rotates the carousel step-wise around the axis, a fluid delivery system 100 that delivers liquid to the reaction well, a drain system 112, 114 that drains

the liquid by differential pressure from the well, a programmable digital computer that controls the system 162 (columns 3-7, Figs 1, 4-5).

6. Claims 1-3, 9, 19-21, 28 and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Raysberg et al (USP 5,106,583).

Raysberg *et al* teach a carousel 19 with a plurality of reaction mounts 1, with reaction wells 3 arranged on the radius of the carousel, a rotator that rotates the carousel step-wise around the axis (column 4, lines 32-41), a fluid delivery system 33 that delivers liquid to the reaction wells, a drain system 35 that drains the liquid by differential pressure from the wells, a programmable digital computer that controls the system 153 (columns 3-7, Figs 1, 4-5).

Claim Rejections - 35 U.S.C. § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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9. Claims 4-8, 10-18, 22-27, 29-44 and 46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raysberg *et al* (USP 5,106,583) in view of Brennan (USP 5,472,672).

Raysberg *et al* as discussed above, do not teach a fluid dispensing assembly comprising a plurality of dispensing modules mounted at a station, each dispensing module comprising a dispensing head adapted to deliver fluid to the well of a reaction mount, a plurality of fluid dispensers, a plurality of fluid lines. Brennan does teach a fluid dispensing assembly comprising a plurality of dispensing modules mounted at a station, each dispensing module 20 comprising a dispensing head 21 adapted to deliver fluid to the wells of a reaction mount 32, a plurality of fluid dispensers, a plurality of fluid lines 44 (columns 5-15, Figs.1-2). Such a plurality of dispensing modules allows for a large array of wells to be aligned with the dispensing modules for simultaneous disposition of the liquid, thereby increasing throughput (column 6, lines 24-39).

Accordingly, it would have been obvious to one of ordinary skill in the art have included in the analysis system of Raysberg *et al* the plurality of fluid dispensers, as taught by Brennan, in order to allow for an large array of wells to be aligned with the dispensing modules for simultaneous disposition of the liquid, thereby increasing throughput.

Conclusion

10. Note that reference AR has been considered, but was not made of record because it is not a published document.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jan M. Ludlow whose telephone number is (703) 308-4039. The examiner can normally be reached on Monday-Thursday, 11:30 am - 8:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (703) 308-4037. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Jan M. Ludlow Primary Examiner Art Unit 1743

Jml September 29, 2003